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| **Introduction:** This PBL will engage students in planning a graduation party by using division, multiplication, estimation and presentation to win the bid for my daughter’s party. Each group will create a display and presentation of what the perfect graduation party will look like and cost. I will choose the winner by amount spent, appearance and correct calculations. (Price lists were passed out for this year due to time restraints with TCAP. Next year they will call different businesses for pricing.) |
| **Lesson Length:** 5 days 90 mins each class period |
| **Materials:** Party Expectations, math interactive notebooks, calculators for checking, presentation materials such as construction paper, poster board, markers. |
| **Lesson Overview:**  This lesson will take 5 class days. The students will need to call around in the community for prices.  **1st day**  ~I will tell each group what I expect at my daughter’s graduation party. The students that meet or exceed my expectations will win the bid!  ~Form groups and designate roles  **2nd day**  ~Students will design the perfect graduation party by using the cost worksheet for local businesses and the expectation list from the teacher.  ~The students must choose a location, time and date.  ~The design of the area should be drawn out in detail.  **3rd day**  ~The students will organize their information and type it up for a neat presentation.  **4th day**  ~Create presentation board and practice with each group.  **5th day**  ~Each group will present their presentation and I will announce the winning bid! May the most creative and cost effective group win! |
| **Tennessee Standards:**  GLE 0506.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.  GLE 0506.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.  GLE 0506.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.  GLE 0506.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.  GLE 0506.1.6 Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.  SPI 0506.2.3 Select a reasonable solution to a real-world division problem in which the remainder must be considered. |
| **Lesson objective(s):**  The students will use a real life example to budget and plan a graduation party. |
| **ENGAGEMENT**  Do you use math daily? If so, how? Discuss in each group how math is used in their lives and in adult lives as well. |
| **EXPLORATION**   1. Students will form groups of three or four. 2. Students will divide the tasks among themselves. 3. The students must call local businesses for pricing. |
| **EXPLANATION**   1. How many people do you need to be prepared for? 2. Which decorations will you choose and why? 3. Which mathematical processes will you use to complete this task? |
| **ELABORATION**  Each group will prepare a spreadsheet and presentation board describing their proposal for the graduation party. |
| **EVALUATION**  Each group will present their presentation with pictures and cost. After all presentations have been made, we will silently vote by ballot which party would be the best based upon presentation and cost. The teacher will be the deciding factor on which group will handle her daughter’s graduation party. |

**Kaylin’s graduation party**

1. Budget (including food, decorations and location) is $2,000.
2. Can be indoor or outdoor but must be prepared if it rains.
3. We’ve invited 200 people.
4. We need a fun theme.
5. Ask me any questions if you want to know more information.